

A7190

Leader in Biomolecular Solutions for Life Science



IDH2 Rabbit pAb

Catalog No.: A7190 **2 Publications**

Basic Information

Observed MW

43kDa

Calculated MW

51kDa

Category

Mouse Monoclonal Antibody

Applications

WB, IHC-P, IF/ICC, IP, ChIP, ELISA

Cross-Reactivity

Human, Mouse, Rat

Background

Isocitrate dehydrogenases catalyze the oxidative decarboxylation of isocitrate to 2-oxoglutarate. These enzymes belong to two distinct subclasses, one of which utilizes NAD(+) as the electron acceptor and the other NADP(+). Five isocitrate dehydrogenases have been reported: three NAD(+)-dependent isocitrate dehydrogenases, which localize to the mitochondrial matrix, and two NADP(+)-dependent isocitrate dehydrogenases, one of which is mitochondrial and the other predominantly cytosolic. Each NADP(+)-dependent isozyme is a homodimer. The protein encoded by this gene is the NADP(+)-dependent isocitrate dehydrogenase found in the mitochondria. It plays a role in intermediary metabolism and energy production. This protein may tightly associate or interact with the pyruvate dehydrogenase complex. Alternative splicing results in multiple transcript variants.

Recommended Dilutions

WB 1:500 - 1:1000

IHC-P 1:50 - 1:200

IF/ICC 1:20 - 1:50

IP 0.5µg-4µg antibody for
200µg-400µg extracts of
whole cells

ChIP 5µg antibody for
10µg-15µg of Chromatin

Immunogen Information

Gene ID

3418

Swiss Prot

P48735

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 193-452 of human IDH2 (NP_002159.2).

Synonyms

IDH; IDP; IDHM; IDPM; ICD-M; IDH-2; D2HGA2; mNADP-IDH; IDH2

Contact



www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

Purification

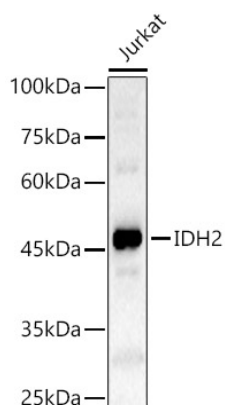
Affinity purification

Storage

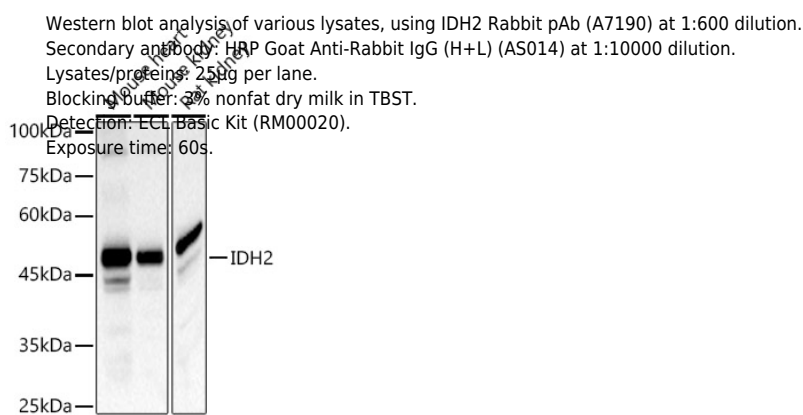
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 50% glycerol, pH7.3.

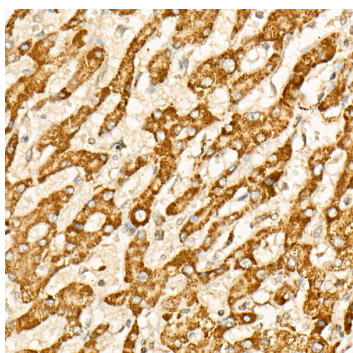
Validation Data



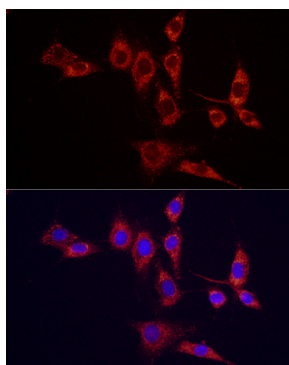
Western blot analysis of lysates from Jurkat cells, using IDH2 Rabbit pAb (A7190) at 1:600 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60s.



Western blot analysis of various lysates, using IDH2 Rabbit pAb (A7190) at 1:600 dilution.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 60s.

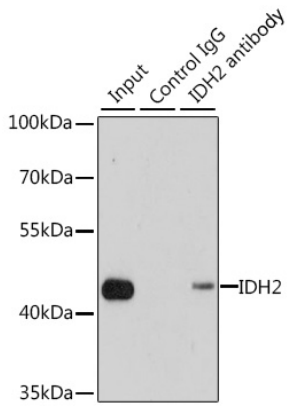


Immunohistochemistry analysis of IDH2 in paraffin-embedded human liver cancer using IDH2 Rabbit pAb (A7190) at dilution of 1:50 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunofluorescence analysis of NIH/3T3 cells using IDH2 Rabbit pAb (A7190) at dilution of 1:50 (40x lens). Secondary antibody: Cy3 Goat Anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

Validation Data



Immunoprecipitation analysis of 200 µg extracts of MCF7 cells using 1 µg IDH2 antibody (A7190). Western blot was performed from the immunoprecipitate using IDH2 antibody (A7190) at a dilution of 1:1000.

